

breakout ABSTRACT

Abstract No. 41

TITLE

BIOMONITORING DATA SOURCES AND APPLICATIONS IN THE NEW MEXICO TRACKING PROGRAM

TRACK

Network Content

OBJECTIVES

How biomonitoring data can be collected and integrated into tracking.

SUMMARY

Biomonitoring data from multiple sources have the potential for being integrated in the Tracking Program. Blood lead levels are one of the core datasets of the Tracking Implementation and are the most historic biomonitoring data. The reporting of blood lead levels is a statutory requirement in the New Mexico Notifiable Conditions. As a result of our Tracking and biomonitoring initiatives, we also added arsenic in urine, mercury in blood and urine, and acetylcholinesterase in blood to our Notifiable Conditions. As these data are provided directly by the labs, there is high compliance for their provision. These data are geo-referenced and evaluated for spatial, time, and demographic trends. An additional data stream is urine samples collected for the CDC-funded Rocky Mountain Biomonitoring Consortium. The urine and concurrent drinking water samples and exposure questionnaires were collected from around the state and were analyzed for metals and arsenic. All of these data have been georeferenced for application to exposure and health outcome linkages, including arsenic levels and bladder cancer. The urine collected in the next two years will also be analyzed for phthalates. The RMBC has also developed a method to analyze infant screening bloodspots for lead and mercury to begin over the next year. Another potential source of biomonitoring data being explored is the utilization of chemical terrorism resources since ongoing use of instruments and analysts enables a higher level of preparedness. The collaboration with the chemical terrorism program and across Western State Laboratories is also being pursued through the Western States Biomonitoring Collaborative funded as a special project of Tracking.

AUTHOR(S):

Helen Flowers, M.S. New Mexico Department of Health

Barbara Toth, Ph.D., NMDOH Will Athas, Ph.D., University of New Mexico Orrin Myers, Ph.D., University of New Mexico Shawn Penman, Ph.D., University of New Mexico







